Application Number		10645047	
Filing Date		2003-08-21	
First Named Inventor	Samp	path Purushothaman et al.	
Art Unit		2822	
Examiner Name	David E. Graybill		
Attorney Docket Number		YOR920030029US2 (16841)	
	Filing Date First Named Inventor Art Unit Examiner Name	Filing Date First Named Inventor Samp Art Unit Examiner Name David	

					U.S.I	PATENTS			Remove		
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue D)ate	Name of Pate of cited Docu	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear				
	1	5081005		1992-01	-14	Chakravorty et					
	2	5114754		1992-05	5-19	Cronin et al.					
	3	5194928		1993-03	3-16	Cronin et al.					
If you wish to add additional U.S. Patent citation information please click the Add button.											
			U.S.P	ATENT	APPLI	CATION PUBL	LICATIONS		Remove		
Examiner Initial* Cite No Publication Number Kind Code ¹ Date Name of Patentee or Applicant of cited Document								Releva	Columns,L Int Passage S Appear		
	1										
If you wis	h to ac	dd additional U.S. Publi	shed Ap	plication	citation	n information p	lease click the Ade	d button	Add		
				FOREIC	SN PAT	ENT DOCUM	ENTS		Remove		
Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ²		Kind Code ⁴	Publication Date Name of Patentee Applicant of cited Document		e or V	Pages,Colu where Rele Passages c Figures App	vant r Relevant	T5
	1										

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number		10645047
Filing Date		2003-08-21
First Named Inventor Samp		ath Purushothaman et al.
Art Unit		2822
Examiner Name David		E. Graybill
Attorney Docket Number		YOR920030029US2 (16841)

If you wisl	If you wish to add additional Foreign Patent Document citation information please click the Add button Add							
NON-PATENT LITERATURE DOCUMENTS Remove								
Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T5					
	1	PERFECTO, E. ET AL., Evaluation of Cu Capping Alternatives for Polyimide-Cu MCM-D, Elec. Comp. Tech. Conf., IEEE, 2001						
	2	PRASAD, K. ET AL., Multilevel Thin Film Packaging: Applications and Processes for High Performance Systems, Trans. Comp. Pac. Man. Tech Pt. B: Adv. Pac., IEEE, February 1994, pp. 38-49, Vol. 17, No. 1						
	3	SHIH, DY. ET AL., Cu Passivation: A Method of Inhibiting Copper-Polyamic Acid Interactions, Appl. Phys. Lett., September 16, 1991, pp. 1424-1426, Vol. 59, No. 12						
	4	OHUCHI, F. S. ET AL., Summary Abstract: Ti as a Diffusion Barrier Between Cu and Polyimide, J. Vac. Sci. Technol. A, May/June 1988, pp. 1004-1006, Vol. 6, No. 3						
	5	O'SULLIVAN, E. J. ET AL., Electrolessly Deposited Diffusion Barriers for Microelectronics, IBM J. Res. Develop., September 1998, pp. 607-620, Vol. 42, N. 5						
	6	SRINIVASAN, R. ET AL., Ultraviolet Laser Ablation of Organic Polymers, Chem. Rev., 1989, pp. 1303-1316, Vol. 89						
	7	KOWALCZYK, STEVEN P. ET AL., Polyimide on Copper: The Role of Solvent in the Formation of Copper Precipitates, Appl. Phys. Lett., February 1988, pp. 375-376, Vol. 52, No. 5						
	8	KIM, YH. ET AL., Adhesion and Interface Investigation of Polyimide on Metals, J. Adhesion Sci. Technol., 1988, pp. 95-105, Vol. 2, No. 2						
	9	LEE, KW. ET AL., Adhesion of Poly(arylene ether benzimidazole) to Copper and Polyimides, J. Adhesion Sci. Technol., 1996, pp. 807-821, Vol. 10, No. 9						

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number		10645047		
Filing Date		2003-08-21		
First Named Inventor Samp		ath Purushothaman et al.		
Art Unit		2822		
Examiner Name David		E. Graybill		
Attorney Docket Number		YOR920030029US2 (16841)		

	10 MATIENZO, LUIS J. ET AL., Adhesion of Metal Films to Polyimides, IBM Corp., Endicott, NY						
	LINDE, H. G., Adhesive Interface Interactions Between Primary Aliphatic Amine Surface Conditioners and Polyamic Acid/Polyimide Resins, J. Poly. Sci.: Poly. Chem. Ed., 1982, pp. 1031-1041, Vol. 20						
If you wish to add additional non-patent literature document citation information please click the Add button Add							
EXAMINER SIGNATURE							
Examiner	Signa	ture	Date Consid	dered			
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							
¹ See Kind Codes of USPTO Patent Documents at <u>www.USPTO.GOV</u> or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here it English language translation is attached.							

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Not for submission under 37 CFR 1.99)

Application Number		10645047		
Filing Date		2003-08-21		
First Named Inventor Samp		ath Purushothaman et al.		
Art Unit		2822		
Examiner Name David		E. Graybill		
Attorney Docket Number		YOR920030029US2 (16841)		

		CERTIFICATIO	N STATEMENT				
Plea	ase see 37 CFR 1	.97 and 1.98 to make the appropriate select	tion(s):				
	That each item of information contained in the information disclosure statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of the information disclosure statement. See 37 CFR 1.97(e)(1).						
OF	2						
	foreign patent o after making rea any individual d	information contained in the information of ffice in a counterpart foreign application, a sonable inquiry, no item of information con esignated in 37 CFR 1.56(c) more than the 37 CFR 1.97(e)(2).	nd, to the knowledge of the tained in the information d	ne person signing the certification isclosure statement was known to			
	See attached ce	rtification statement.					
X	Fee set forth in 3	37 CFR 1.17 (p) has been submitted herewi	th.				
	None						
	ignature of the ap n of the signature.	SIGNA plicant or representative is required in acco		18. Please see CFR 1.4(d) for the			
Signature /LESLIE S. SZIVOS/ Date (YYYY-MM-DD) 2007-01-11							
Nar	ne/Print	Leslie S. Szivos	Registration Number	39,394			
		rmation is required by 37 CFR 1.97 and 1.90 (and by the USPTO to process) an applicati	-				

1.14. This collection is estimated to take 1 hour to complete, including gathering, preparing and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria**,

VA 22313-1450.

Privacy Act Statement

The Privacy Act of 1974 (P.L. 93-579) requires that you be given certain information in connection with your submission of the attached form related to a patent application or patent. Accordingly, pursuant to the requirements of the Act, please be advised that: (1) the general authority for the collection of this information is 35 U.S.C. 2(b)(2); (2) furnishing of the information solicited is voluntary; and (3) the principal purpose for which the information is used by the U.S. Patent and Trademark Office is to process and/or examine your submission related to a patent application or patent. If you do not furnish the requested information, the U.S. Patent and Trademark Office may not be able to process and/or examine your submission, which may result in termination of proceedings or abandonment of the application or expiration of the patent.

The information provided by you in this form will be subject to the following routine uses:

- 1. The information on this form will be treated confidentially to the extent allowed under the Freedom of Information Act (5 U.S.C. 552) and the Privacy Act (5 U.S.C. 552a). Records from this system of records may be disclosed to the Department of Justice to determine whether the Freedom of Information Act requires disclosure of these record s.
- A record from this system of records may be disclosed, as a routine use, in the course of presenting evidence to a court, magistrate, or administrative tribunal, including disclosures to opposing counsel in the course of settlement negotiations.
- 3. A record in this system of records may be disclosed, as a routine use, to a Member of Congress submitting a request involving an individual, to whom the record pertains, when the individual has requested assistance from the Member with respect to the subject matter of the record.
- 4. A record in this system of records may be disclosed, as a routine use, to a contractor of the Agency having need for the information in order to perform a contract. Recipients of information shall be required to comply with the requirements of the Privacy Act of 1974, as amended, pursuant to 5 U.S.C. 552a(m).
- 5. A record related to an International Application filed under the Patent Cooperation Treaty in this system of records may be disclosed, as a routine use, to the International Bureau of the World Intellectual Property Organization, pursuant to the Patent Cooperation Treaty.
- 6. A record in this system of records may be disclosed, as a routine use, to another federal agency for purposes of National Security review (35 U.S.C. 181) and for review pursuant to the Atomic Energy Act (42 U.S.C. 218(c)).
- 7. A record from this system of records may be disclosed, as a routine use, to the Administrator, General Services, or his/her designee, during an inspection of records conducted by GSA as part of that agency's responsibility to recommend improvements in records management practices and programs, under authority of 44 U.S.C. 2904 and 2906. Such disclosure shall be made in accordance with the GSA regulations governing inspection of records for this purpose, and any other relevant (i.e., GSA or Commerce) directive. Such disclosure shall not be used to make determinations about individuals.
- 8. A record from this system of records may be disclosed, as a routine use, to the public after either publication of the application pursuant to 35 U.S.C. 122(b) or issuance of a patent pursuant to 35 U.S.C. 151. Further, a record may be disclosed, subject to the limitations of 37 CFR 1.14, as a routine use, to the public if the record was filed in an application which became abandoned or in which the proceedings were terminated and which application is referenced by either a published application, an application open to public inspections or an issued patent.
 - 9. A record from this system of records may be disclosed, as a routine use, to a Federal, State, or local law enforcement agency, if the USPTO becomes aware of a violation or potential violation of law or regulation.